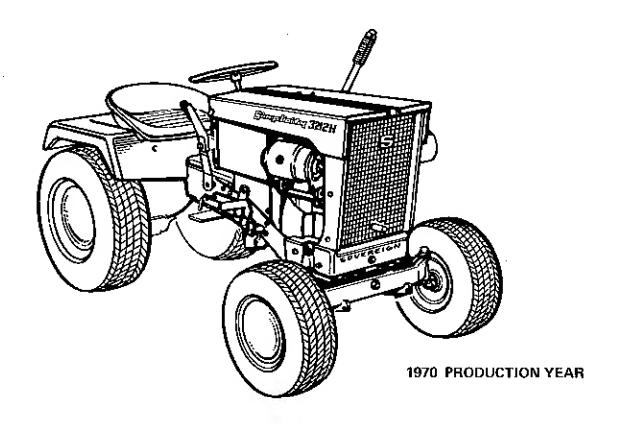
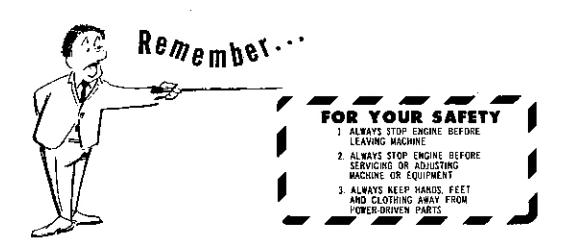


SOVEREIGN > HYDROSTATIC DRIVE

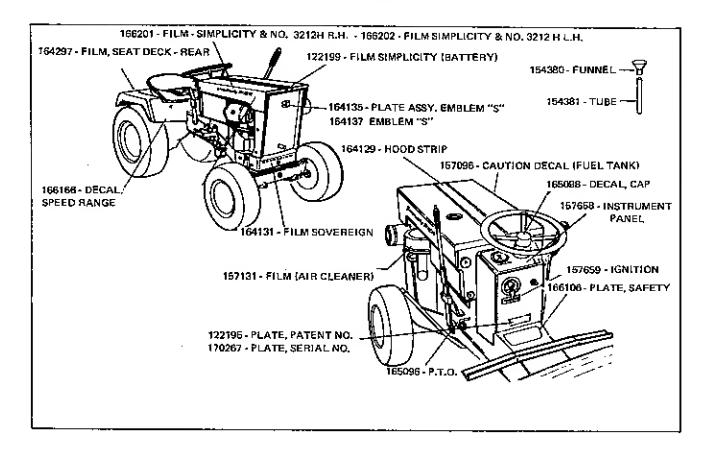


Mfrs. No. 572-3212H MANUAL LIFT Mfrs. No. 573-3212H POWER LIFT Should warranty service be necessary, the information below should be presented to the authorized SIMPLICITY Dealer.

Customer's Name	
Address	
	Serial No
Date Purchased	
Purchased From	
Address	
Engine Model No.	Serial NoType No
To oldain replacement part	s from dealer, advise quantity, part number and description.



DECALS



PACKING

This tractor is delivered complete in one earton. The carton contains:

- 1 Tractor Assembly
- 1 Steering Wheel (in skin pack)
- 1 Hardware Pack

Should any shortages of the above items occur, advise by stating packers number listed on green packing slip, serial number of tractor, part number and description of items missing.

ASSEMBLY

BATTERY

Remove battery from tractor. Service as stated in the battery instructions. Replace and secure battery in tractor.

STEERING WHEEL

Assemble steering wheel on the steering shaft using the woodruff key and setserew which is provided in the hardware pack. Assemble steering cap over hub of steering wheel.

ENGINE LUBRICATION

Service air cleaner and crankease as recommended in Engine Service Manual. Be sure air cleaner is maintained in clean condition. Never use oil incrankease for more than 25 hours of operation. See Figure 11. CLEAN AIR AND CLEAN ENGINE OIL WILL GIVE LONG TROUBLE FREE OPERATION. DIRT WILL RUIN YOUR ENGINE IN A

SHORT TIME. A funnel and extension are included with the tractor for use in changing oil.

The bevel gear housing has a capacity of one pint of SAE 90 oil and is filled at the factory. It will not normally require replenishment, but occasionally check drain plug for tightness and oil scals for leakage. Keep oil up to level of filter plug. See Figure 8.

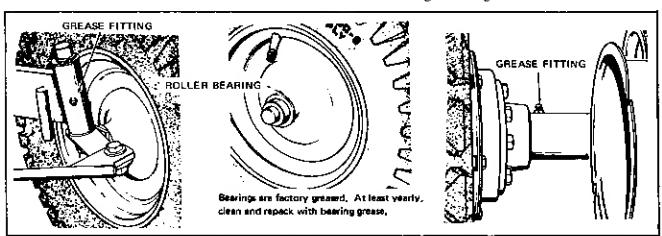
TRACTOR LUBRICATION

The tractor has a total of 3 grease fittings which require lubrication with general purpose automotive grease. Use a standard grease gun for the following fittings:

- (2) Front Spindles
- (1) Rear Axle Tube

Before lubricating, wipe each grease fitting with a rag to prevent grit and dirt from being carried into bearings with new grease.

The transmission has a capacity of 1-1/2 qts. of SAE 90 oil and is filled at the factory. It will not normally require replenishment, but occasionally check drain plug for tightness and axle tube oil seals for leakage. Maintain oil level at lower edge of filler plug hole. Remove vent plug from top of transmission and allow oil to settle to normal level before checking. See Figure 7.



LUBRICATION POINTS

FIGURES 1 TO 6 DELETED

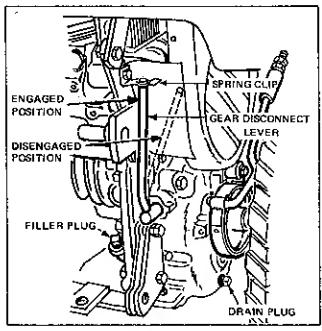


Figure 7



- 1. Move the gear disconnect lever, located on the rear of the transmission to a vertical position to engage the transmission. See Figure 7.
- 2. Move the hydrostatic control lever to neutral position. See Figure 9. (Note: The engine will not start if this lever is not in neutral).
- Depress the clutch and brake pedal as far as it will go. See Figure 11.
 - 4. Pull choke knob out as necessary.
 - 5. Turn the key to start the engine.

TO STOP ENGINE

Depress the clutch and brake pedal and move the hydrostatic control lever to neutral position. The trigger on the control lever must be squeezed against the lever to pull the lever back to neutral.

With hydrostatic control lever in neutral, the brake is engaged. Turn the ignition key to vertical (off) position and remove key for safekeeping. Apply parking brake.

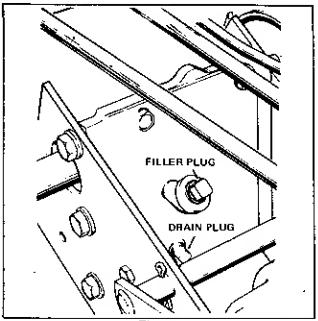


Figure 8

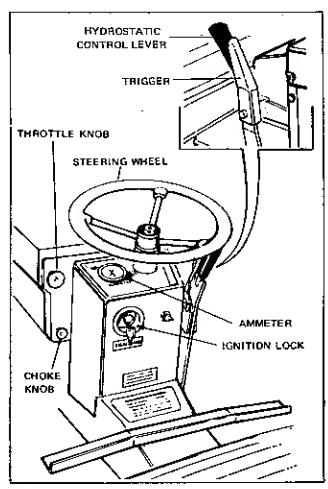


Figure 9

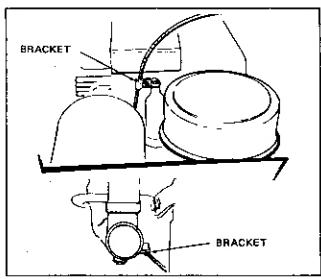


Figure 10

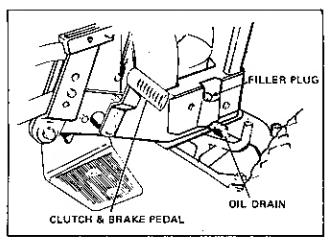


Figure 11

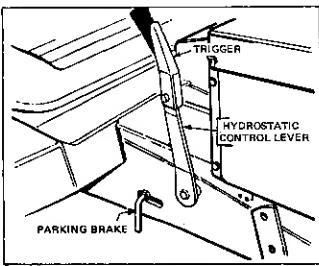


Figure 12

GEAR DISCONNECT LEVER

This lever is used to engage the transmission for running and to disengage the transmission if the tractor has to be moved without engine power. See Figure 7.

CAUTION

When gear disconnect lever is moved to disengage position, no brakes can be engaged. Never disengage disconnect lever when tractor is on an incline unless tires are properly blocked.

- 1. To engage transmission, he sure hydrostatic control lever is in neutral position and move the gear disconnect lever to vertical position until it snaps into the spring clip.
- 2. To discogage the transmission, pull the gear disconnect lever out of the spring clip and move the lever to the right as far as possible.

OPERATION OF TRACTOR

With the gear disconnect lever engaged and the engine running, move the hydrostatic control lever forward to go forward and pull it back to go in reverse. Set throttle lever to obtain desired speed. To inch forward or back, place the control lever in forward or reverse position and depress and release the clutch and brake pedal. The hydrostatic control lever can also be used for this but it is better to use the clutch and brake pedal as both hands are then free to steer the tractor.

To stop tractor movement, depress the clutch and brake pedal or move the hydrostatic control lever to neutral position.

CLUTCH ADJUSTMENT

If the tractor creeps forward or back when the hydrostatic control lever is in neutral, the turn-buckle on the control linkage should be adjusted. See Figure 13.

Loosen the locknuts at each of the turnbuckles and rotate the turnbuckle clockwise or counterclockwise as necessary until the tractor does not creep.

Retighten the locknuts using two wrenches so turnbuckle will not be moved and observe tractor to be sure it does not creep. Readjust if necessary.

BRAKE ADJUSTMENT

The brake should be adjusted to provide full braking when the clutch brake pedal is completely depressed.

Place the hydrostatic control lever in neutral position. Depress clutch brake pedal completely and turn the brake band adjusting nut until the brake band is tight against the brake drum. See Figure 13.

HYDRAULIC SYSTEM MAINTENANCE

To be sure of satisfactory performance it is important that the hydraulic oil is kept absolutely clean and that the level of oil in the oil reservoir be maintained. See Figure 13.

Before checking the hydraulic oil level, be sure the outside of the hydraulic oil reservoir is clean and no debris will enter the reservoir.

Check hydraulic oil level by removing the inspection plug on the side and near the top of the reservoir. If oil runs out of the hole, the reservoir is full and the plug should be replaced. If oil does not run out of the hole, replace the inspection plug, remove the nut and cover from top of the reservoir and add oil to the reservoir until it reaches the level

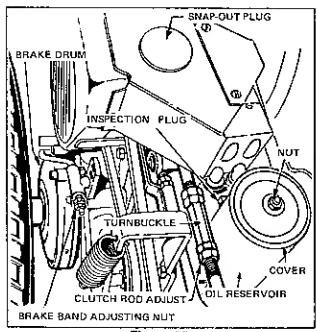


Figure 13

of the inspection plug. Use only Dexron A.T.F. (Automatic Transmission Phiid) which is available locally from several major oil companies.

Capacity of the system is 1-3/4 quarts.

After every five (5) hours of operation (more often in dusty conditions) remove the snap-out plug from the fan and oil cooler housing and clean fan and housing with air or water under pressure. Replace the plug by pressing it unto the hole.

The hydraulic oil filter in the bottom of the reservoir has to be changed only when dirt gets into the hydraulic oil in the reservoir. To change the filter, remove the nut and cover from top of reservoir. Have a container ready to eatch the oil and disconnect one of the hoses at the bottom of the oil reservoir. Raise the end of the hose and tie it up so oil will not run out of the transmission.

Drain the oil from the reservoir into the container.

Remove the filter and replace with a new one. Add Dexron Automatic Transmission Fluid to the reservoir up to the level of the inspection plug. Replace the cover and mit on the reservoir.

DIFFERENTIAL

The tractor'is equipped with a controlled traction differential. Tightening the hex head capscrews in the right hand wheel hub (See Figure 14.), provides pressure against a nylon plug and sleeve around the tractor axle and prevents excessive wheel slippage when the tractor is being used under abnormal conditions. The adjusting capscrews are set at the factory to a torque of 25 ft. lbs. As the nylon sets itself through use, it may be necessary to readjust the capscrews a few times to maintain 25 ft. lbs. of torque (25 lbs. weight on wrench 1 ft. long).

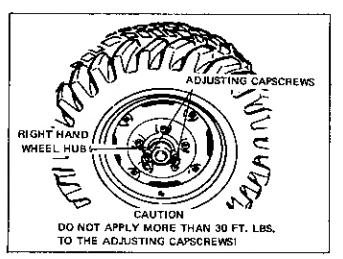


Figure 14

POWER TAKE-OFF

LUBRICATION

The power take-off is lubricated by means of one grease fitting located on the bottom front of the drive bracket assembly. Occasionally apply grease by means of a standard grease gun toaded with automotive type grease. Be sure to wipe dirt and grit from grease fitting before applying grease gun. Lubricate all pivot points and idler pulley bearings with SAE 20 oil every few hours of operation.

OPERATION

Operation of the power take-off is controlled by movement of the clutch lever assembly. See Figure 15. When the clutch lever is in the forward raised position, the clutch rod releases the tension holding the idler pulley against the drive belt and power will not be transmitted to the driven pulley of the power take-off assembly. When the clutch lever is in the back, depressed position, the clutch rod applies tension to the idler pulley and as the idler pulley takes up the slack in the drive belt, power is transmitted from the drive pulley on bevel gear box shaft to the driven pulley of the power takeoff. Figure 15 shows clutch lever in drive position.

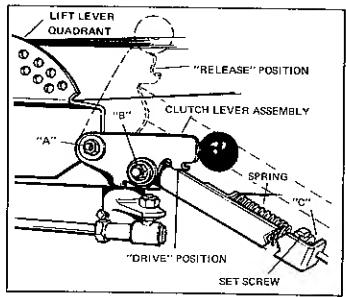


Figure 15

ADJUSTMENT

At points "A" and "B" of Figure 15, check tightness of hex nut to be sure that clutch lever assembly and clutch rod are free to pivot without binding.

Place clutch lever in "Drive" position and observe clearance between collar "C" (Figure 15) and end of bracket. When implement is attached to tractor, this clearance should normally be approximately 3/4". At this setting the idler pulley should be snugly against the drive belt. If additional tension is required, release clutch lever and loosen setserew on collar and slide collar farther back on clutch rod. Retighten setserew in collar and put clutch lever in "Drive" position. Recheck clearance. The tension of the idler pulley against the drive belt must be sufficient to operate whichever tractor attachment is being used. Any additional tension is unnecessary and will only cause premature failure of belts and idler pulley bearings.

TIRES

The tires of the tractor are inflated with air pressure in excess of the normal amount for shipment. For comfort of operation, release some of the pressure ontil a pressure of 12 to 15 lbs, per sq. in. for both front and rear tires. Maintain lires at this pressure.

OPERATION - POWER LIFT KIT

The Power Lift Kit which is an optional feature on the Landford & Sovereign Tractors is used to raise and lower various attachments with finger-tip pressure applied to the control lever.

To raise a front mounted attachment, pull the power lift lever backward. When the desired height is reached, release the lever and it will return to the "hold" position. To lower a front mounted attachment, push the lever to the front, then release when desired depth is reached.

A rear mounted attachment is raised by pushing forward on the lever and is lowered by pulling the lever backward.

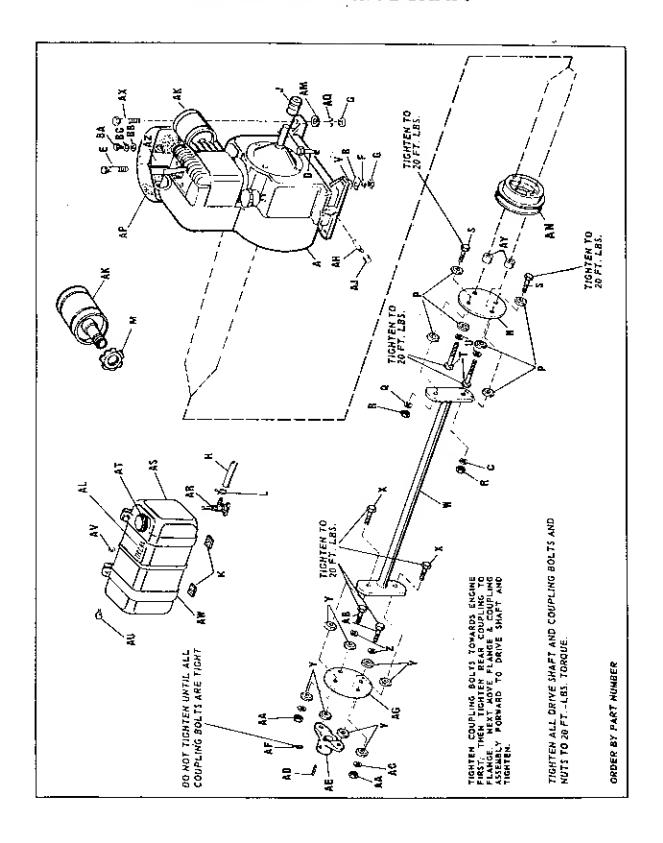
The index tabs at each end of the quadrant serve as lock points for the "float" position which allows an attachment such as a dozer blade, grader blade or snow thrower to follow ground contours freely.

NOTE

The Rear Mounted Tiller Attachment should be operated only in the rear "float" position. Do not operate the tiller in the "hold" position, as difficulty will result if an obstacle is encountered. This would raise the rear wheels off the ground and propel the tractor forward at a dangerous rate. To get in or out of either "float" position, squeeze the release bar handle upward to clear the index tab.

Front mounted attachments such as the snow thrower and dozer blade may be operated with the power lift lever in the "hold" position. However, downward pressure will be exerted on the attachment thus preventing the snow thrower or blade from following the contour of the ground.

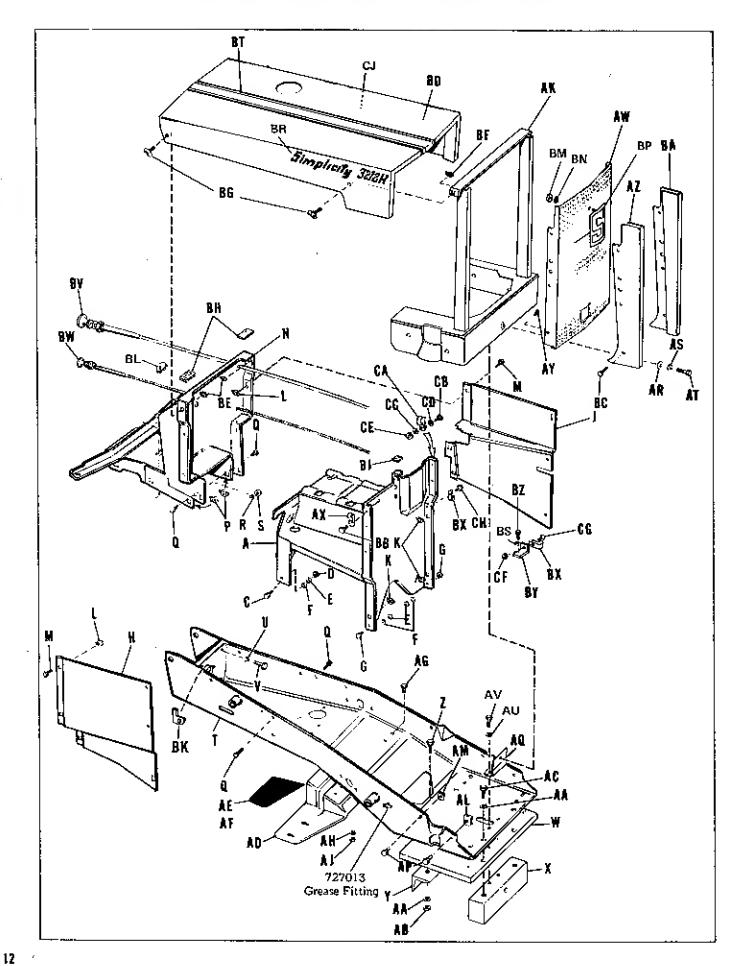
ENGINE AND DRIVE SHAFT



ENGINE AND DRIVE SHAFT

Ref. Let.	Part No.	Description	Ref. Let.	Part No.	Description
Α		Engine, Briggs & Stratton	AC	720002	Lock Washer, 3/8"
В	157144	Stop Axie	AD	157427	Key
С	720002	Lock Washer, 3/8"	AE	154198	Drive Shaft Flange
D	705010	Hex. Cap Screw, 3/8"-16 x 1 3/4"	AF	715049	Cup Point Socket Head Set Screw,
E	170277	Rect, Hd. Screw			3/8"-24 x 3/8"
F	720002	Lock Washer, 3/8"	AG	157422	Coupling
G	717003	Full Hex. Nut, 3/8"-16	AH	157497	Pipe Nipple, 3/8" x 1" Lq.
H	157316	Fuel Hose (Flexible)	AJ	726501	Pipe Cap, 3/8"
J	154327	Crankshaft Extension Guard	AK	157634	Exhaust Muffler
K	106582	Felt Pad	AL	157096	Decal, Fuel Tank
1.	154372	Hose Clamp (For Service Only)	AM	719001	Plain Washer, 3/8"
M	154378	Lock Nut	AN	164282	Pulley
N	157422	Coupling	AP	157131	Film, Air Cleaner
P	157424	Special Washer	ΑQ	720002	Lock Washer, 3/8"
Q	720002	Lock Washer, 3/8"	AR	156176	Shut-Off Valve
R	717003	Full Hex. Nut, 3/8"-16	AS	157006	Fuel Tank
S	705016	Hex. Cap Screw, 3/8"-16 x 1 1/4" Lg.	AT	156175	Fuel Tank Cap
τ	715043	Hex. Cap Screw, 3/8"-16 x 2 1/2" Lg.	ΑU	705053	Hex. Hd. Cap Screw, 1/4"-20 x 1 3/4"
υ	720002	Lock Washer, 3/8"	ΑV	717005	Full Hex. Nut, 1/4"-20
V	719001	Plain Washer, 3/8"	AW	162060	Tank Strap
٧	157016	Drive Shaft Assembly	AX	705006	Hex. Hd. Capscrew, 3/8"-16 x 2" Lg.
Х	705016	Hex. Cap Screw, 3/8"-16 x 1 1/4"	AY	157081	Spacer
Y	157424	Special Washer	AZ	157126	Air Cleaner Spacer
Z	720002	Lock Washer, 3/8"	BA	715018	Hex. Hd. Cap Screw, 1/4"-20 x 5/8"
AA	717003	Full Hex. Nut, 3/8"-16	88	719006	Plain Washer, 1/4"
AB	705016	Hex. Cap Screw, 3/8"-16 x 1 1/4"	BC	720003	Lock Washer, 1/4"

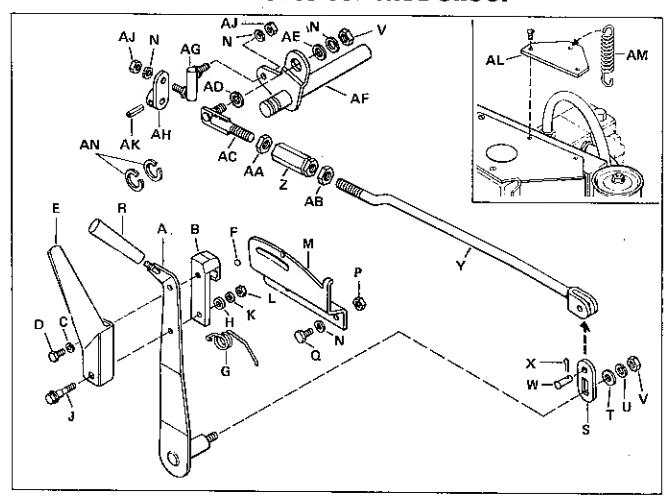
FRAME, HOOD, GRILL, & INST. PANEL



FRAME, HOOD, GRILL, & INST. PANEL

Ref. Let.	Part No.	Description	Ref. Let.	Part No.	Description
А	164003	Support Assembly , Fuel Tank &	AU	720001	Lock Washer, 5/16"
		Battery	AV	705018	Hex. Cap Screw, 5/16" 18 x 1 1/2"
			AW	164009	Grille
Ç	705019	Hex. Cap Screw, 5/16"-18 x 1 1/4"	AX	122195	Clamp
D	717511	Full Lock Hex. Nut, 5/16"-18	AY	714003	Self Tapping Screw, No. 10 x 1/2"
Ē	717001	Full Hex. Nut, 5/16" 18	AZ	164028	R.H. Side Plate
F	720001	Lock Washer, 5/16"	BA	164027	L.H. Side Plato
G	705012	Hex. Cap Screw, 5/16"-18 x 5/8"	ВВ	714005	Self-Tapping Screw No. 10-24 x 1/2"
н	164014	R.H. Side Panel	ВС	714003	Self Tapping Screw No. 10 x 1/2"
J	164013	L.H. Side Panel	BD	164011	Hood
κ	718032	Nut Retainer	BE	718041	Nut Retainer (Rear)
L	718043	Nut Retainer	BF	718024	Nut Retainer (Front)
M	715018	Hex. Cap Screw, 1/4"-20 x 5/8"	BG	715037	Thumb Screw
N	164232	Inst. Panel Assembly	вн	164120	Felt Pad
P	718032	Nut Retainer (Frame Cover)	BJ	164121	Felt Pad
Q	715098	Hex. Cap Screw, 1/4"-20 x 1/2"	ВК	166200	Rod Guide
R	720003	Lock Washer, 1/4"	BL	164191	Plug Butten
S	717005	Full Hex. Nut, 1/4"-20	ВМ	717023	Hex Nut 10-24
Ť	164010	Frame Assembly	BN	720007	Lock Washer
U	720006	Lock Washer, 7/16"	BP	184137	Emblem "S"
V	705039	Hex. Cap Screw, 7/16"-14 x 1 1/2"	BQ	164135	Plate, Assy.
W	157057	Base Weight	BR	166201	Simplicity & Number 3212 Film
Х	157060	Front Support, 1 3/4" x 2 1/2" x			(R.H.)
		8 5/8"	BS	720003	Lock Washer , 1/4"
Υ	157482	Angle Assembly (Frame Rear)	BT	164129	Hood Strip
Z	715080	Hex. Cap Screw, 7/16"-14 x 1 1/2"	BU	715018	Hex. Cap Screw, 1/4"-20 x 5/8"
AΑ	720006	Lock Washer, 7/16"	BV	164042	Throttle Control
AB	717022	Full Hex. Nut, 7/16"-14	BW	164019	Choke Control
AC	706003	Hex. Cap Screw, 7/16"-20 x 1 1/2"	вх	158475	Bowden Wire Clip
AD	157065	Foot Rest	BY	157315	Throttle Cable Bracket
ΑE	157090	L.H. Foot Rest Pad	BZ	714021	Self Tapping Screw, 1/4"-20 x 5/8"
AF	157089	R.H.Foot Rest Pad	CA	122186	Clamp
AG	705004	Hex. Cap Screw, 3/8"-16 x 3/4"	¢в	705015	Hex. Cap Screw, 1/4"-20 x 5/8"
AH	720002	Lock Washer, 3/8"	CC	720003	Lock Washer, 1/4"
AJ	717003	Full Hex. Nut, 3/8"-16	CD	719006	Plain Washer, 1/4"
AK	164008	Cover & Tube Assembly	CE	717005	Full Hex. Nut, 1/4"-20
AL	718022	Retainer Nut (Front)	CF	717007	Full Hex. Nut, 10-32
AM	718030	Retainer Nut, (Rear)] CG	710004	Mach. Rd. Hd. Screw, 10-32 x 3/8"
AP	715082	Hex Screw, Whiz-Lock Flange, 5/16"- 18 x 3/4"	CH	714005	Self Tapping Rd. Hd. Screw, 10-24 x 1/2"
AΩ	157488	Bracket Assembly	CJ	166202	Simplicity & Number 3212 Film
AR	719002	Plain Washer, 5/16"			(L.H.)
AS	720001	Lock Washer, 5/16"			
AT	705019	Hex. Cap Screw, 5/16"-18 x 1 1/4"			

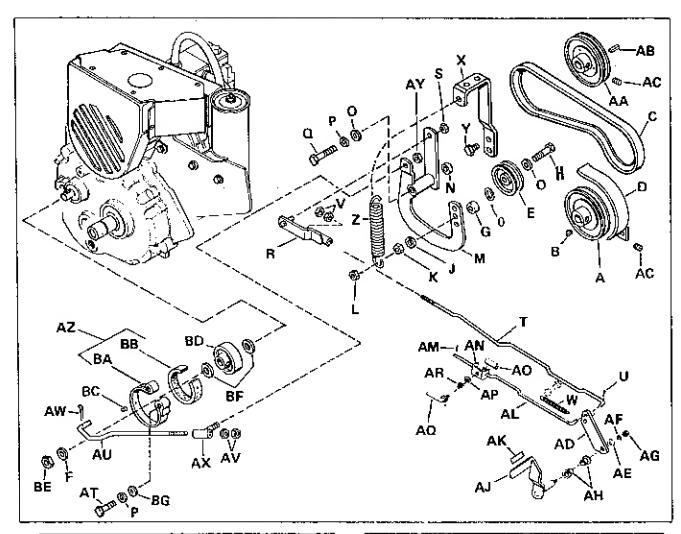
HYDROSTATIC CONTROL GROUP



Ref. Let.	Part No.	Description
A	166036	Lever Assembly
В	166038	Stop Clamp
С	720003	Lock Washer, 1/4" Std.
D	705002	Hex Capscrew, 1/4"-20 N.C. x 1/2"
E	166050	Handle
F	166178	Shift Ball Handle, 5/16"
G	166047	Spring
H	166063	Spacer
J	166051	Shoulder Bolt
K	719006	Plain Washer, 1/4"
Ł	717513	Full Hex Lock Nut, 1/4"- 20
M.	166087	Support Plate
N	720001	Lock Washer, 5/16"
P	717001	Full Hex Nut, 5/16"-18
Q	705012	Hex Capscrew, 5/16"-18 N.C.x 5/8"
R	164180	Handle
s	164123	Link,
Ŧ	719001	Plain Washer, 3/8"
L		

Ref. Let.	Part No.	Description
U	720002	Lock Washer, 3/8"
V	717003	Full Hex Nut, 3/8"-16
W	153058	Pin
X	722001	Cotter Pin, 3/32" x 3/4"
Y	166083	Rod Assy., Control, Front
Z	166088	Tum Buckle
AA	718046	Full Hex Nut, 7/16"-14 L.H.,
AB	717022	Full Hex Nut, 7/16"-14 R.H.
AC	166089	Rod Assy., Rear Control
AD	166078	Spacer
AE	719002	Plain Washer, 5/16"
AF	166095	Shaft Assy., Control
AG	166079	Ball Joint, Double End
AH AJ AK	166092 717002 723008	Link Assy., Control Full Hex Nut, 5/16"-24 Roll Pin, 1/4" x 1-1/4"
AL	166160	Spring Clip,
AM	107135	Spring
AN	118240	Retaining Ring
	110240	nerenning chilip

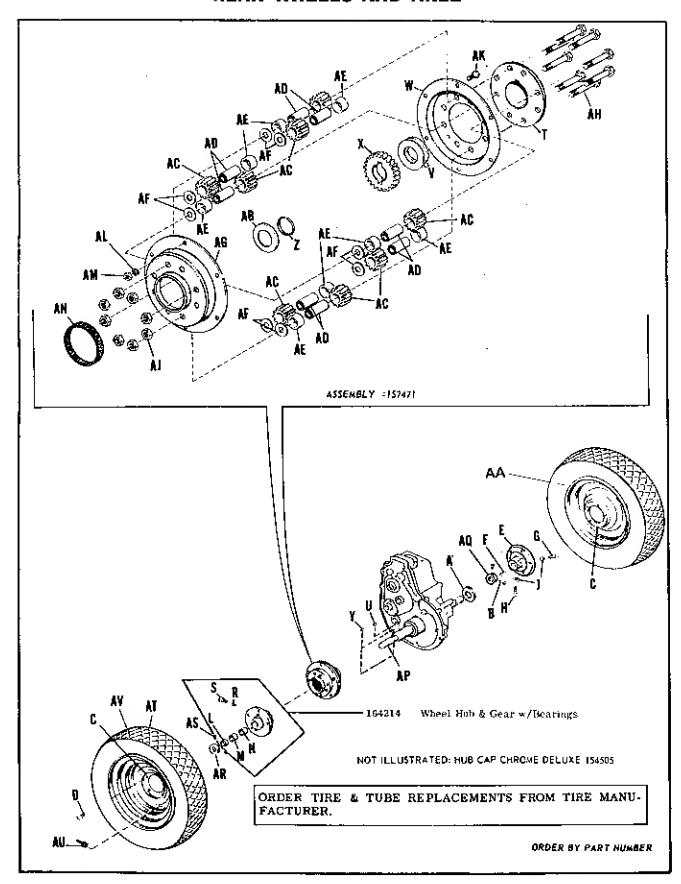
CLUTCH AND BRAKE GROUP



Hef	Part No.	Description
Let,		
Α '	154308	Driver Pulley
В	775003	Waadsaff Key, 3/16" x 3/4"
С	166172	"V" Bet
0	1 6 6122	Belt Guard Assembly
ε	164268	ldler Pullry
F	719001	Plain Washer, 3/8"
6	157081	Spacer
H	7050 03	Hex. Capscrew, 3/8-16 x 2-1/4" lg.
J	720002	Lock Washer, 3/8"
K	717003	Full Hex. Natt., 3/8" - 16 N.C.
L	717524	Jam Hex. Lock Nut. 3/8" - 16 N.C.
M	166126	Idler Lever Assembly
N	166130	Spacer
0	719001	Plain Washer, 3/8"
P	720002	Lock Washer, 3/8"
Q	715063	Hex. Capsciew, 7/16" - 14 x 3-3/4"
Ħ	166157	Rod Guide Assembly,
5	717511	Full Hex. Lock Not, 5/16" - 18 N.C.
Т	166131	Clatch & Brake Rod
U	722009	Cotter Pin , 1/8" x 3/4" tg
V	717001	Full Hex. Not. 5/16" - 18 N.C.
٧y	159100	Front Tension Spring
×	166156	Spring Bracket, 1/4 x 1 x 11-1/4"
Y	714027	Hex. Hd. Capscrew_3/8 v 3/4"
2	154369	Idler Pulley Spring
AΛ	166173	Driven Pulley
ΑÐ	157337	Key
	1	

Hel. Let.	Part No.	Description
LEL.		
AC	71 35 03	Cup Pt. Socket Hd. Set Screw,5/16-18 t 5/16"
AD	-157300	Food Pedal Arm, 1/4 x 1-3/4 x 5-7/8"
ΑŢ	719001	Plain Washer 3/8"
AF	720002	Lock Washer, 3/8"
AG i	717003	Full Mex. Not., 3/8" 16 N.C.
AH	108419	Bushing
ΑJ	170304	Foot Pedal Assembly
AK	162098	Pedal Pad
AL	164210	Parking Brake Rod
AM	722001	Cotter Pin, 3/32" x 3/4" (g.
ΑN	164143	Parking Brake Bracket Assy.
AO	157287	Spacer_3/8"
AP	719003	Plain Washer, 7/16"
AQ	164142	Parking Brake Lock
Aθ	157127	Contral Spring
•	1	
AΤ	705010	Hex. Capscrew, 3/8" 16 x 1-3/4" (g.
AU	16605B	Brake Rod
AV	717003	Folk Hex. Nut , 3/8" + 16 N.C.
AW	722001	Couter Pin, 3/32" x 3/4" tg
AX	166119	Rod Guide Assembly
AY	717511	Foll Hex, Lock Nut., 5/16" 18 N.C.
AZ	166057	Brake Band & Lining Assembly
ВА	166056	Br Ae B and
88	166065	Brake Linking
вC	724502	Hive: No. 7 x 1/4" (g.
80	166176	Brake Drum
BE	717519	Lock Nut. 7/16** - 14
BF	158198	Washer
BG	719002	Plain Washer, 3/R**

REAR WHEELS AND AXLE



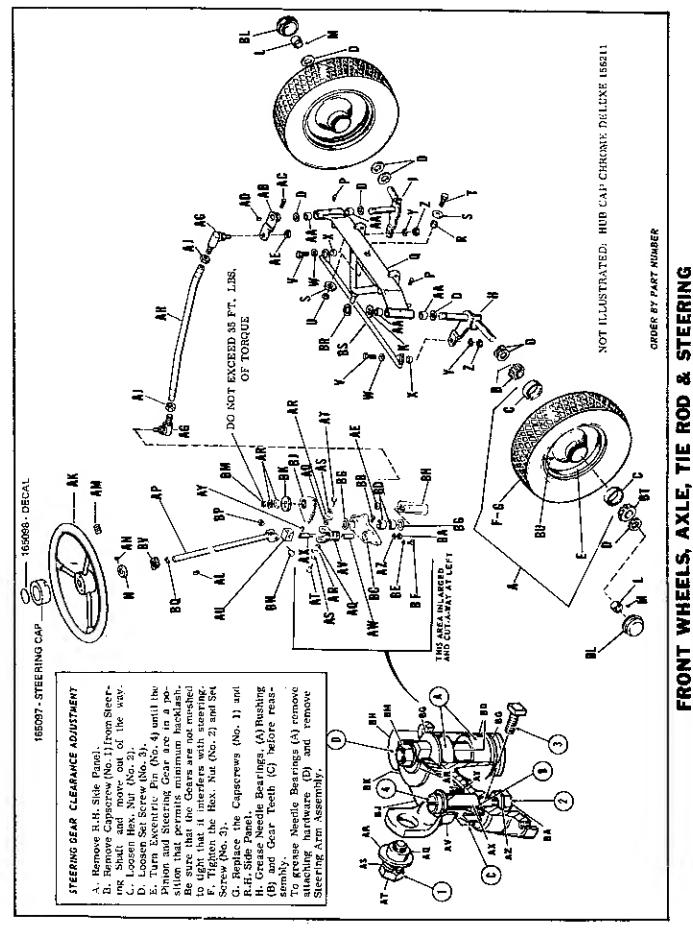
REAR WHEELS AND AXLE

Ref. Let.	Part No.	Description
А	105050	Washer
В	713002	Set Screw, 5/16"-18 x 3/8" Lg.
¢	170278	Wheel Drive
D	-121138	Hub Bolt
E	154208	L.H. Wheel Hub
F	159129	Key
G	715022	Set Screw, 3/8"-16 x 1 1/2" Lg.
į R	713004	Set Screw 3/8"-16 x 1" Lg.
t	717021	Hex. Jam Nut, 3/8"-16
1_	105058	Bearing
M	152041	Nylon Bearing
N	153068	Bearing
R	152042	Nylon Plug
S	713508	Control Traction Bolt, 7/16"-20 x 1/2" Lg.
T	164217	Differential Carrier
U	157120	Drīve Key
V	154035	Axfe Washer
₩·	164218*	Differential Cover
X	164219	Differential Gear
Y	725501	Hi-Pro Key
Z	154291	Retaining Ring
AA	157638	Tube (For Service Only)
AB	154277	Axle Washer
AC	121311	Differential Pinion
AD	121083	Pinion Differential Spindle
AE	121084	Differential Spacer
AF	719002	Plain Washer
AG	164220*	Differential Cover
AH	715043	Hex. Cap Screw, 3/8"-16 x 2 1/2"
AJ	717510	Full Lock Hex. Nut, 3/8"-16
AK	705015	Hex. Cap Screw, 1/4"-20 x 5/8"
AL	720003	Lock Washer, 1/4"
AM	717005	Full Hex. Nut, 1/4"-20
AN	121190	Differential Cover Seal
AP	164221	Rear Axle
AΩ	154065	Axle Collar
AR	154065	Axle Collar
A5	713002	Set Screw, 5/16"⋅18 x 3/8"
AT	157637	Tire 10 1/2" x 12
AU	157029	Valve Stem
AV	170280	Wheel & Tire Assy.

- CAUTION -----

DO NOT EXCEED 25ft, POUNDS OF TORQUE ON PART NUMBER 713508, REFERENCE LETTER (S), CONTROL TRACTION BOLTS.

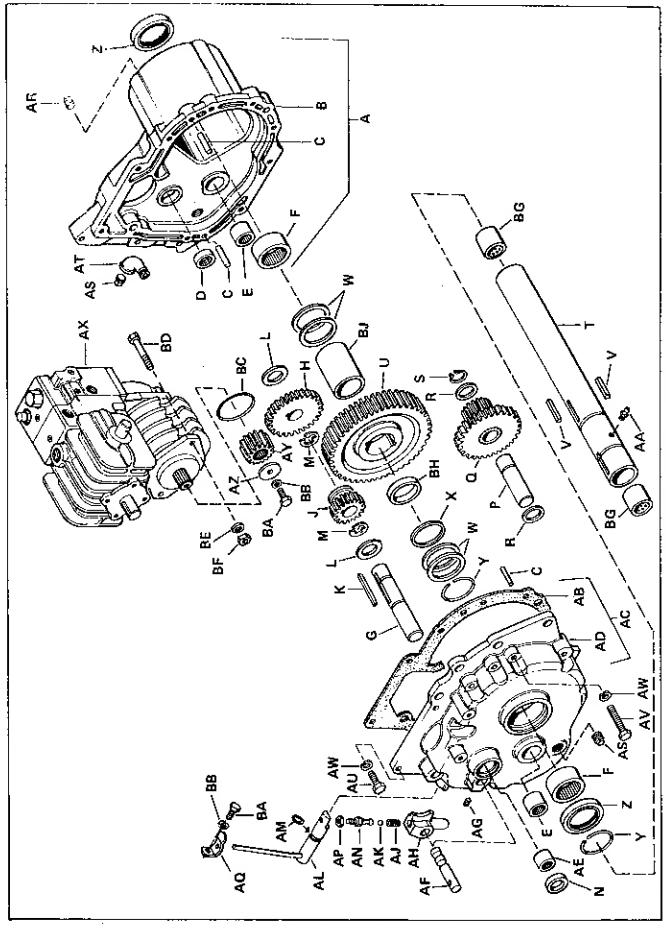
^{*} Reference letters "N" and "AG" must be replaced in pairs.



 $\int ds$

FRONT WHEELS, AXLE, TIE ROD & STEERING

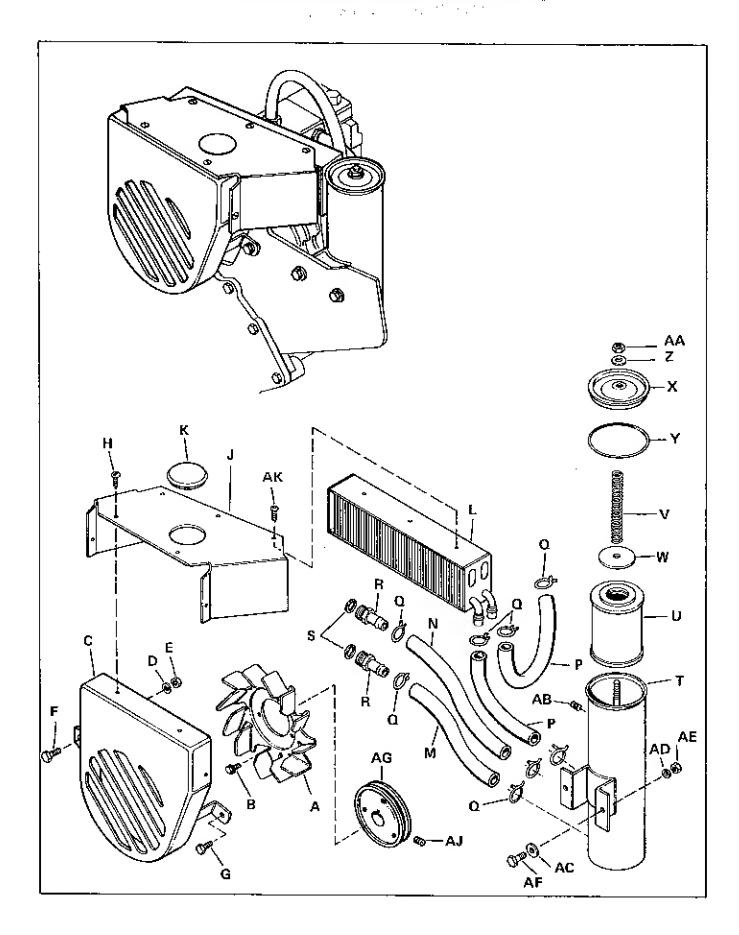
Ref. Let.	Part No.	Description	Ref.	Part No,	Description
LET.			Let.	L	
Α .	157505	Wheel and Tire Assembly	AM	713503	Socket Head Cup Point Set Screw,
В	154397	Bearing Cone w/seal		ļ i	5/16″-18 x 5/16″ Lg.
С	154393	Bearing Cup	AN	713502	Socket Head Set Screw, 5/16"-18
D	108181	Washer		<u> </u>	x 1/4" Lg.
E	157506	Wheel w/Bearing Cup	AP	157259	Steering Shaft Assembly
F	157490	Tire	ΑQ	153081	Spacer
Ģ	153038	Tube .	AR	719001	Plain Washer, 3/8"
H	157494	Spindle Assembly, R.H.	AS	720002	Lock Washer, 3/8"
J	157611	Spindle Assembly, L.H.	AT	715030	Hex. Cap Screw, 3/8"-16 x 3/4" Lg.
κ	8061012	Washer	AU	154153	Universal Joint Pin
L	8021010	Set Collar	A۷	157254	Bushing Assembly
M	713503	Cup Point Socket Head Set Screw,	AW	157258	Bushing
		5/16"-18 x 5/16" Lg.	AX	157253	Pin Eccentric
N	8021010	Set Collar	AY	158399	Retainer Ring
P	727001	Grease Fitting	AZ	720002	Lock Washer
Q	157616	Axle Assembly, Front	BA	717003	Full Hex. Nut, 3/8"-16
R	157618	Spacer	BB	713012	Sq. Hd. Set Screw, 1/4"-20 x 3/4"
S	719004	Plain Washer, 1/2"	BC	157302	Steering Bracket
T	705037	Hex. Cap Screw, 1/2"-13 x 1" Lg.	BD	154258	Needle Bearing
Ų	717518	Full Lock Hex. Nut, 1/2"-13	BE	720001	Lock Washer, 5/16"
٧	705016	Hex. Cap Screw, 3/8"-16 x 1 1/4" Lg.	BF	705012	Hex. Cap Screw, 5/16"-18 x 5/8"
W	719001	Plain Washer, 3/8"	BG	8061012	Washer
х	154177	Spacer	BH	164263	Steering Arm Assembly
Υ	720002	Lock Washer, 3/8"	BJ	164235	Gear Steering
Z	717003	Full Hex. Nat, 3/8"-16	BK	108182	Arbor Washer
AA	154289	Bearing	BL	154487	Ниб Сар
AB	157613	Arm Assembly, Steering, L.H.	BM	717519	Gripco Center Lock 7/16"-14
AC	713006	Screw, Set Cup Point, Square Head,	BN	715026	Hex Cap Screw
		5/16"-18 x 1/2" Lg.	BP	717511	Full Hex. Nut, 5/16"-18
AD	157427	Key	BQ	154264	Snap Ring
AE	717528	Full Hex. Lock Nut, 1/2"-20	BR	157286	Retaining Ring
			BS	157499	Drag Link
AG	164272	Ball Joint	BT	154486	Outside Bearing
АН	164271	Tie Rod	BU	157305	Valve Stem
AJ	717016	Nut, 1/2"-20 N.F.	BV	157077	Steering Bushing
AK	157702	Steering Wheel			
AL	725003	Woodruff Key No. 9	1		



TRANSMISSION GROUP

Ref, Let.	Part No.	Description	Ref. Let.	Part No.	Description
Α	166105	Gear Case Complete (includes B thru F)	AE	166019	Needle Bearing
В	166001	Gear Case	AF	166028	Shifter Shaft
C	723018	Roll Pin, 3/8" x 1-1/4"	AG	715019	Cone Pt. Setscrew, Hollow Hd.,
D	154271	Needle Bearing			5/16"-18 x 1/2"
E	166018	Needle Bearing	AH	166027	Shift Fork
F	157519	Needle Bearing	AJ	154323	Spring
G	166011	Brake Shaft	AK	154262	Shift Lock Ball
Н	166004	Gear - 1st Interm.	AL	166164	Shift, Shaft Assembly
į J	166005	Sliding Pinion	AM	166023	"O" Ring
K	166014	Key	AN	166029	Shift Stem
L	166013	Washer	AP	717029	Hex. Jam Nut, 5/16"-24
M	166015	Retainer Ring	AQ	166162	Lift Lever Latch
N	166021	Oil Seal	AR	726002	Pipe Plug, 1/4"
P	166012	Shaft, Interm,	AS	726003	Pîpe Plug, 3/8"
a	166010	Pinion & Gear Assembly	AT	728501	Street Elbow, 3/8"
R	166016	Washer	AU	705007	Hex. Capscrew,5/16-18 x 1"
S	166017	Retaining Ring	AV	705020	Hex. Capscrew,5/16-18 x 2"
T	166066	Axle Tube Assembly	AW	720001	Lock Washer, 5/16"
υ	166006	Drive Gear	AX	166097	Hydrostatic Pump & Motor Unit
l V	154096	Keγ	AY ;	166003	Motor Shaft Pinion
. W	154097	Washer	AZ	123144	Washer .
	166167	Washer	BA	715088	Hex. Capscrew, 5/16-24 x 5/8"
Y 7	154268	Snap Ring	BB	720001	Lock Washer, 5/16"
I —	154269	Şeal	BC	166026	"O" Ring
AA	727002	Grease Fitting	BD	715084	Hex. Capscrew, 7/16-14 x 4"
AB	166043	Gear Case Gasket	BE	720006	Lock Washer, 7/16"
AC	166103	Gear Case Cover Sub. Assy. (includes	BF	717022	Hex. Nut, Full, 7/16"-14
AD	100000	AD, AE, E, F)	BG	164224	Bushing
80	166002	Gear Case Cover	ВН	166040	Spacer (R.H.Side)
<u> </u>			BJ	166041	Spacer (L.H,Side)

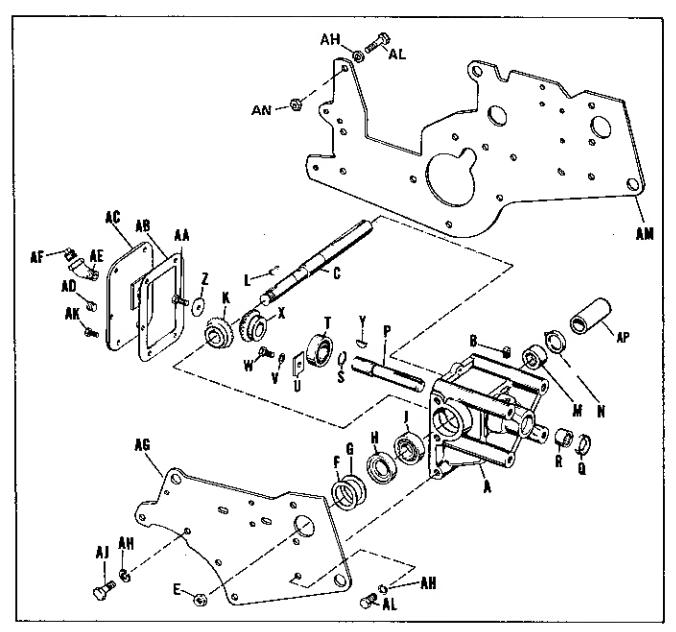
HYDROSTATIC COOLING GROUP



HYDROSTATIC COOLING GROUP

Ref.	Part No.	Description
Let,		
А	100000	B.U.
R R	166022	Pulley Fan
_	715090	Hex, Screw, Washer Hd.
C	166114	Fan Shroud Assembly
. D	720001	Lock Washer, 5/16"
E	717001	Ful) Hex. Nut 5/16"-18
	705017	Hex. Capscrew 5/16-18 x 3/4"
G	714026	Hax. Screw, Thd.
H	714004	Tapscrew, Round hd. slot 3/8"
J	166134	Cooler Deflector
K	166165	Caplug
Ł	166135	Oil Cooler
М	166136	Hydraulic Hose
N	166137	Hydraulic Hose
P	166138	 Hydraulic Hose
α	166044	Hose Clamp
R	166139	Beaded Insert
\$	166024	"O" Ring
Т	166140	Reservoir Assembly
U	166147	Filter Element
V	166171	Spring
w	766150	Washer
х	166080	Reservair Cover
Υ	166020	"O" Ring
2	166161	Nylon Washer
AA	717525	Elastic Stop Nut 5/16" - 18
AB	726253	Pipe Plug 1/4"
AC	719002	Plain Washer, 5/16"
AD	720001	Lock Washer, 5/16"
AE	717001	Full Hex. Nut, 5/16 - 18"
AF	705017	Hex. Capscrew, 5/16-18 x 3/4"
AG	166173	Driven Pulley
A.	713503	Cup Pt. Socket Hd. Set Screw
1		5/16-18 x 5/16"
AK	710002	Rd. Hd. Mach Screw
į		No. 10-32 x 1/2" lg.
<u> i i </u>		

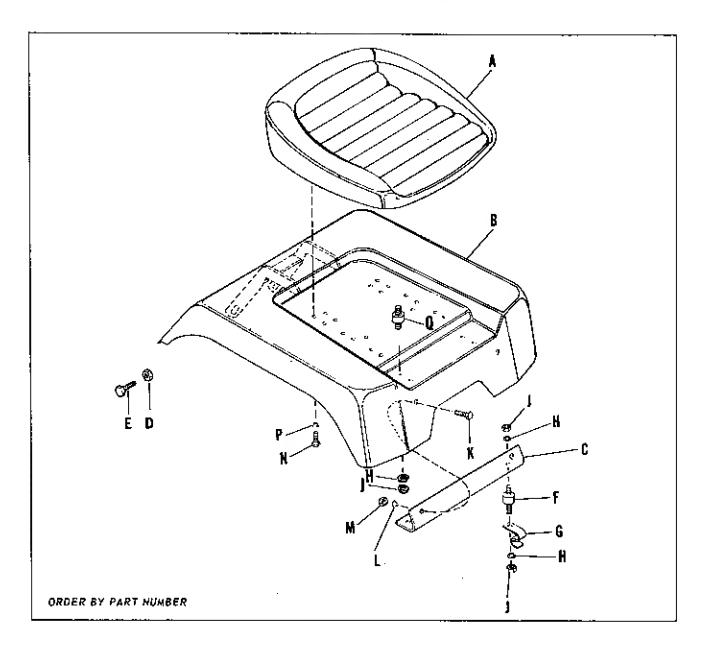
BEVEL GEAR HOUSING



Ref. Let.	Part No.	Description
A	154062	Bavel Gear Housing, W/Bearings
B	154326	Pipe Plug
(C	154135	Drive Shaft
E	717517	Hex Jam Nut
F	154137	Shim (As Required)
jc	154138	Shim
н	157669	Oil Seai
J	118011	Ball Bearing
K	154139	Bevel Driven Gear
L'	725003	Key
M .	154279	Needle Bearing
N :	116117	Oil Seal
P	157426	Driven Shaft
Q	154263	Oil Seal
R ;	154258	Needle Bearing
S	118134	Retaining Ring
T	118011	Ball Bearing
ן טן	154040	Bearing Clamp Plate
V	720001	Lock Washer, 5/16"

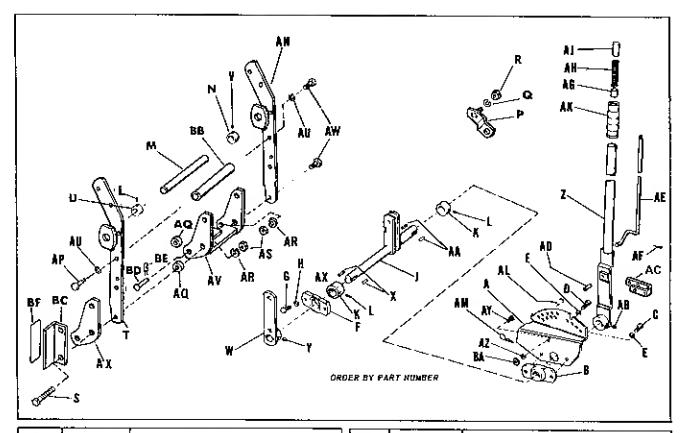
Ref. No.	Part No.	Description
W X Y Z AA AB AC AD AF AF AG AH AJ AK AL AM AN AN	705012 154121 725003 154028 154281 154282 164289 726002 728501 726008 166049 720006 705041 707003 705042 166054 717022 166077	Hex Capacrew, 5/16"-18 x 5/8" lg. Bevel Driven Gear Key Washer Hex Capacrew, 5/16"-18 x 3/4" lg. Gasket Housing Cover Assembly Pipe Plug Street Elbow Pipe Plug R. H. Side Plate Lock Washer, 7/16" Hex Cap Screw, 7/16"-14 x 1" lg. Hex Cap Screw, 1/4"-20 x 5/8" lg. Hex Capscrew, 7/16"-14 x 1-1/4" lg. L. H. Side Plate Full Hex Nut, 7/16"-14
	•	

SEAT AND FENDERS



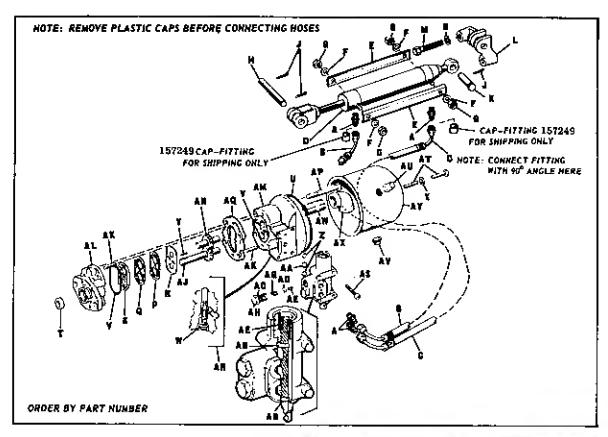
Ref. Let.	Part No.	Description
A	156203	Seat Assembly
в	166111	Seat Deck Assembly
С	164029	Seal Deck Bracket, Front
D.	717510	Hex. Locknot, Full, 3/8"-16
E	705016	Hex. Head Capscrew, 3/8"-16 x 1-1/4"
r i	139093	Cushion Connector, Front
G	164145	Spring Clip
н	720001	Lock Washer, 5/16"
J	717001	Hex. Not. Full, 5/16"-19
ĸ	705012	Hex. Head Capscrew, 5/16" 19 x 5/8" lg.
1.	720001	Lockwasher, 5/16"
M	717001	Hex. Nut. Full. 5/16"-18
N	705012	Hex. Head Capserew, 5/16"-18 x 5/8" lg.
- P	720001	Lockwasher, 5/16"
a }	157094	Cushion Connector, Front

REAR LIFT DRAW BAR GROUP



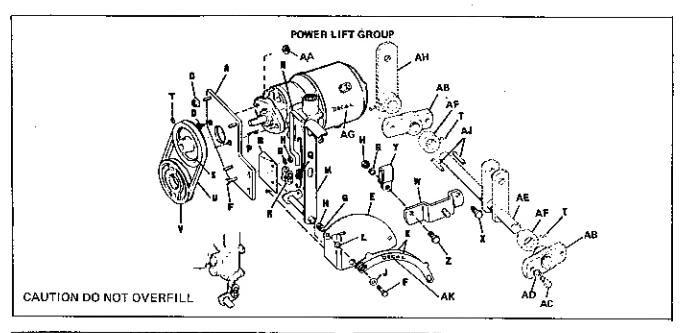
Ref. Let.	Part No.	Description		Part No.	Description
A	154209	Lift Lever Quadrant	AD	723007	· Roll Pin
В	157620	Lift Lever Bearing	AE	157701	Latch Rod
C	705031	Hex. Cap Screw, 3/8"-16 x 7/8"	AF	722001	Cotter Pin, 3/32" x 3/4"
D	705016	Hex. Cap Screw, 3/8"-16 x 1 1/4"	AG	154226	Spacer
E	720002	Lock Washer, 3/8"	AH	152006	Spring
∮ F	157620	Lift Lever Bearing	AJ	154227	Thumb Button
G	705031	Hex. Cap Screw, 3/8"-16 x 7/8"	AK	156209	Handle Grip
H	720002	Lock Washer, 3/8"	AL	153058	Pin
J	157640	Lift Shaft Assembly	AM	8161045	Spring Clip
lκ	157624	Set Collar	AN	166072	Arm Assembly
i.	713503	Set Screw 5/16" - 18x 5/16"	AP	705047	Hex. Cap Screw, 7/16"-14 x 1 3/4"
) M	154216	Lift Shaft	AQ	166076	Spacer
N	157695	Set Collar	AR	721601	Lock Washer
P	154362	Pivot Bar Assy.	AS	717022	Full Hex. Nut, 7/16"
Q	719001	Plain Washer	- 1		' '
R	717510	Hex. Nut, 3/8"-16	AU	720006	Lock Washer, 7/16"
s	705069	Hex. Cap Screw, 7/16"-14 x 2 1/2"	AV	166074	Draw Bar Assembly
T	166206	Arm Assembly	AW	705042	Hex. Cap Screw, 7/16"-14 x 1 1/4"
ļυ	8021010	Set Collar	AX	166075	Draw Plate
į v	713501	Set Screw, 5/16"-18 x 1/ 2 "	AY	715018	Нех Сар Screw, 1/4"-20 x 5/8"
W	157625	Front Litt Lever Assembly	AZ	720003	Lock Washer,1/4"
x	157652	Key	BA	717005	Hex Nut, 1/4"-20
Υ	713502	Set Screw, 5/16"-18 x 1/4"	ВВ	166110	Spacer
Z	157696	Lift Lever Assembly	BC	166198	Plate, Decal
AA	157120	Key	BD	155037	Round Head Pin
AB	713502	Set Screw, 5/16"-18 x 1/4"	BE	8161045	Spring Clip
AC	157700	Lift Lever Latch	BF	166197	Film, Safety

POWER LIFT GROUP



Ref. Let.	Part No.	Description	Ref. Let.	Part No.	Description
A	164277	Fitting	AA	157407	"O" Ring
В	157210	Hose Assembly	AB	157405	"O" Ring
C	157211	Hose Assembly	AC	157444	"O" Ring
D	157236	Cylinder Assembly	AD	157445	Ball
E	157228	Side Bar	AE	157446	Pin Cam
F	720001	Lock Washer, 5/16"			
G	717001	Full Hex. Nut, 5/16"-18	AG	157448	Spring
Н	157225	Pin	AH	157449	Cage
1	722009	Cotter Pin, 1/8" x 3/4"	Aj	157450	Drive Gear Assembly
K	157194	Ram Bracket Pin	AK	157451	Dowel Pin
L .	157001	Ram Bracket	AL	157452	Front Cover Assembly
M	705052	Hex. Cap Screw 7/16"-14 x 2 1/4"	AM .	157453	Back Cover Assembly
N	720006	Lock Washer, 7/16"	AN	157454	Driven Gear Assembly
P	157433	Heat Shield (for service only)	AP	157455	Bolt
Q	157434	Gasket	AQ	157456	Center, Section Machined
R	157435	Wear Plate	AR	157457	Reflet Valve Assembly
S	1 5 7436	Seat	AS	157459	Screw
Т	157437	Rotary Seal	AT	157460	Screw
U	157438	"O" Ring	AU	157462	Filler Cap Plug
٧	157439	"O" Rīng	AV	157463	Drain Plug
W	157404	"O" Ring	AW	157464	Inlet Nipple
Х	157441	Stat-O-Sea!	AX	157465	Inlet Elbow
Y	157442	Shaft Drive Key	AY	157461	Tank Assembly
Z	157406	"O" Ring	1		,

POWER LIFT GROUP



Ref. Let.	Part No.	Description	Ref. Let.	Part No.	Description
Α	157587	Pump Support Assembly	т	713503	Set Screw, 5/16"-18 x 5/16"
В	157428	Angle Brecket	U :	157230	"V" Belt
C I	718033	Hex. Nut, Whiz Lock, 5/16"-18	- ν - }	157484	Drive Pulley
D	709002	Machine Screw, Flat Hd., 3/8"-16	W	157233	Pivot Bar Assembly
		× 1 1/4"	x	705007	Hex. Cap Screw, 5/16"-18 x 1"
Ė	157199	Quadrant	- 1 Y, - i	157245	Hose Clamp
F	715057	Hex. Cap Screw, 1/4"-20 x 3/4"	Z	705021	Hex. Cap Screw, 1/4"-20 x 1"
Ģ	720003	Lock Washer, 1/4"	AA	718035	Nut, Whiz-Lock Flange, 3/8"-16
H	717005	Full Hex. Nut, 1/4"-20	AB	157620	Lift Lever Bearing
J	719006	Plain Washer, 1/4"	AC	705031	Hex. Cap Screw, 3/8"-16 x 7/8"
K	157204	Stop Plate	AD	720002	Lock Washer, 3/8"
L	157205	Spacer	AE	157621	Lift Shaft Assembly
M	157200	Lever Assembly	AF	157624	Set Collar
N	157206	Latch Rod	AG	157242	Decal
P	722016	Cotter Pin, 3/32" x 5/8"	AH	157625	Front Lift Lever Assembly
Q	157207	Spring	LA	157120	Key
R	157208	Connecting Link	AK	157232	Film
S	157430	Pump Pulley		1	

INSTRUCTIONS FOR ADJUSTING HAND LEVER AND FLOAT STOPS OF QUADRANT ON POWER LIFT UNIT

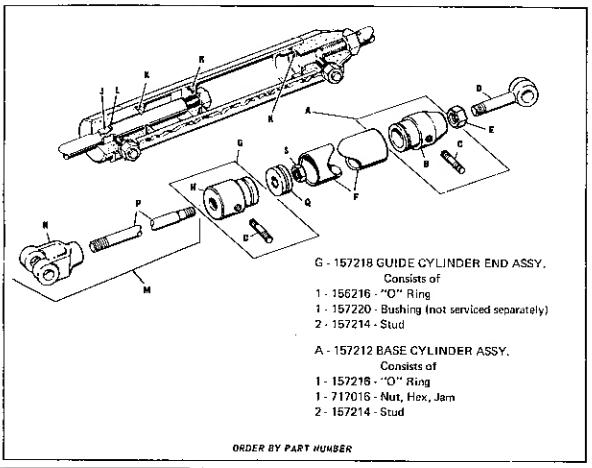
Attach pump to pump support assembly No. 157587. Then attach support assembly to fuel tank and steering post support. Attach lever with connecting link to valve spool shaft.

Place the lever No. 157200 with the latch rod No. 157206 in the exact middle of the two hex cap screws "F" located in the quadrant No. 157199. This is done by adjusting the angle bracket No. 157428 and quadrant No. 157199 up or down on the support No. 157587. Tighten the capscrews securing the bracket and quadrant to the support.

Move fever to most extreme position (front or rear). Bring stop plate up so notch is striking rod No. 157206 and secure capscrew "F" furthest from handle. Repeat procedure to the other stop plate.

Check rod No. 157206 in both positions. This rod is not to have ANY FREE MOVEMENT when in front or rear float position. Excessive play at this point increases back pressure on the pump and may cause overheating of the pump. If pump is moved to lift position (front or rear) and then drops the load before entering float position, readjust the hand lever to center of quadrant as described above. Oil lever and rod to insure free movement.

POWER LIFT GROUP



Ref. Let.	Part No.	Description
A B C D E F G H J	157212 157213 157214 157215 717016 157217 157218 157219 157220	Cylinder Base Sub-Assembly Cylinder Base Stud Bolt, 5/16"-18 x 7/8" Bolt Eye Jam Hex. Nut, 1/2"-20 Cylindor Sub Assembly Guide Cylinder End Guide Bushing

Ref. Let.	Part No.	Description
KLMNPORS	157216 157670 157222 157223 157224 157226 167668 717009	"O" Ring "O" Ring Yoke & Rod Sub-Assembly Yoke Piston Rod Piston "O" Ring Full Hex. Nut

CAUTION

IT IS VITALLY IMPORTANT THAT THE HYDRAULIC FLUID AND ALL INTERNAL PARTS OF THIS UNIT BE KEPT COMPLETELY CLEAN AND FREE OF FOREIGN MATTER OF ANY TYPE.

USE UTMOST CARE IN ADDING OR CHECKING FLUID AND IN PERFORMING ANY SERVICE ON INTEGRAL PARTS.

(For instance if a fitting or other part is dropped on a contaminated surface, the part must be carefully washed and dried before re-using.)

REMEMBER-HYDRAULICS DEMAND CLEANLINESS

SPEED CLIP 165074 NOT ILE. (L.H.SIDE PLATE) ᇤ ₹ PURPLE ELECTRIC STARTER-GENERATOR SYSTEM 185074 SPEED CLIP (NOT ILLUSTRATED) SO-AZ | A≺ -AW YELLOW Ş Ą Ą AS, AN

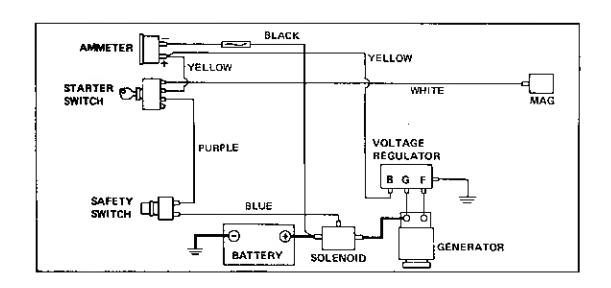
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ELECTRIC STARTER-GENERATOR SYSTEM

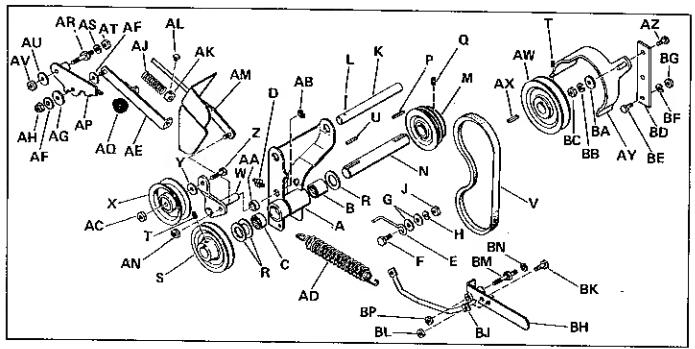
Ref. Let.	Part No.	Description
Α	122236 **	Motor-Generator
В	122213	Generator Start Cable
С	122023	Terminal Cover
D	122140	Reg. Gen, Wire
£	157524	"V" Belt
F	157654	Support Assemiby
G	720001	Lock Washer, 5/16"
Н	715048	Hex. Cap Screw, 5/16"-18 x 3/4"
J	720001	Lock Washer, 5/16"
K	717001	Full Hex. Nut, 5/16"-18
L	705019	Hex. Cap Screw, 5/16"-18 x 1 1/4"
M	122193 " 1	Voltage Regulator
N	164254	Bracket
P	705030	Hex. Cap Screw, 1/4"-20 x 3/4"
Ω	720003	Lock Washer, 1/4"
R _.	717005	Full Hex. Not, 1/4"-20
S	157102	Bolt Tightener
Т	705017	Hex. Cap Screw, 5/16"-18 x 3/4"
U	719002	Plain Washer, 5/16"
V	720001	Lock Washer, 5/16"
W ·	717001	Full Hex. Nat, 5/16"-18
х	122190	Battery
Y	122204	Cable (Battery to Solenoid)
Z	122138	Cable (Battery to Ground)
АД	715090	Screw Hex. Thread Forming, 1/4" - 20 x 1/2"
AD	122142	Batter Insulation

	·	·
Ref.	Part No.	Description
Let.		
AE	122143	Fuel Tank Insulation
AF	122143	Wire Clamp (Generator Cable)
AG	164256	•
AH	164238	Harness Assembly
Al	122216	Speed Clip Solenoid
AJ	122218	Solenola
AL	122131	Anmeter
AM	122172	Fuse, 20 Amp
AN	717007	Full Hex. Nut, 10-32
AΡ	122147	Wire (Ground to Ground)
ΩA	122233	Safety Switch
AR	122201	Starter Switch w/Keys
AS	721003	Lock Washer, ext. No. 10
AT	714005	Rd, Hd, Screw 10-24 x 1/2"
ΑU	721509	Lock Washer Int. 9/16"
ΑV	122183	Clip Fuse
AW	170321	Battery Bracket
AX ·	122174	"J" Bolt
AY	720003	Lock Washer, 1/4"
AZ	718042	Wing Nut
ВА	122199	Film, (SIMPLICITY)
88	122203	Keys
вс	122235	Hex. Nut, Special
BD	166174	Switch Support
BE	705017	Hex. Cap Screw, 5/16"-18 x 3/4"
BF	720001	Lock Washer, 5/16"
BG	717001	Full Hex. Not, 5/16"-18
вн	122234	Nut
L i		

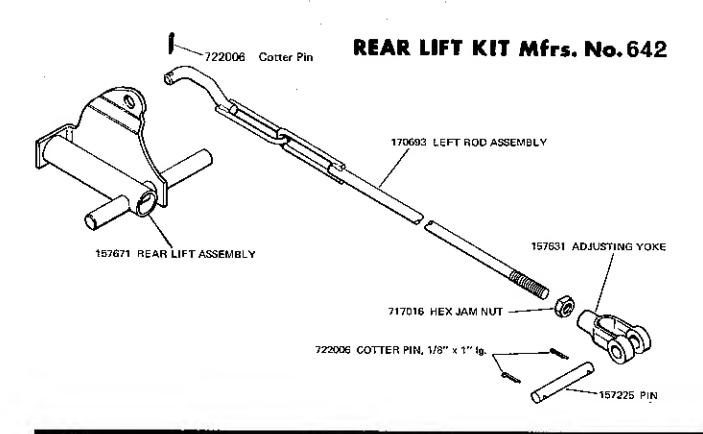
^{**} FOR SERVICE CONTACT YOUR LOCAL UNITED MOTOR SERVICE DEALER (DELCO-REMY)



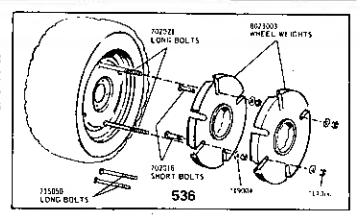
POWER TAKE-OFF

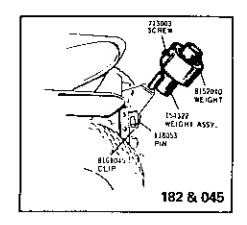


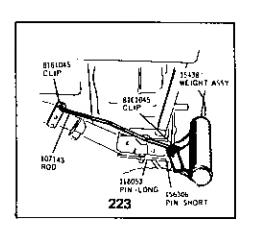
Ref. Let.	Part No.	Description	Ref. Let.	Part No.	Description
A	157675	Bracket, P.T.O. Ass'y.	AG	159134	Washer, Special
l B	157678	Bearing, Roller	AH	717525	
l c	157679	Bearing, Roller	AJ	163103	Elastic Stop Nut, 5/16" - 18 N.C. Spring
i o	727001	Grease Fitting	AK	8191022	Set Collar
İΕ	161080	Stop Belt	AL	713001	
F	705007	Hex. Hd. Cap Screw, 5/16" - 18 N.C.	^`-	/13001	Cup Pt. Sq. Hd. Screw Set, 1/4"-20 N.C. x 3/8" Lg.
		× 1" Lg.	AM	164302	Rod Guide Assembly
G	719002	Plain Washer, 5/16"	AN	717510	Full Lock Hex. Nut, 3/8"-16 N.C.
н	720001	Lock Washer, 5/16"	AP	157690	Clutch Lover Ass'y, P.T.O.
J	717001	Full Hex. Nut, 5/16" - 18 N.C.	ΑQ	122005	Knob, P.T.O.
K	154233	Rod Pivot, 5/8" Dia. x 6 - 13/16"	AR	106771	Stud
L	722007	Cotter Pin	AS	720002	Lock Washer, 3/8"
M	157680	Pulley	AT	717003	Full Hex. Nut, 3/8"-16 N.C.
N	157681	Shaft, P.T.O.	AU	719002	Plain Washer, 5/16"
Р	157427	Key,	AV	717524	Stop Center Lock Jam Nut, 3/8"-16
a	713502	Cup Pt. Skt. Hd, Screw Set, 5/16"	AW	157694	Pulley
j		18 N.C. x 1/4" Lg.	AX	8061081	Key
R	118252	Washer	AY	164152	Guard Belt
S	157682	Pulley, P.T.O.	AZ	705005	Hex. Cap Screw, 3/8"-16 N.C. x 1"
į τ	713503	Cup Pt. Skt. Hd. Screw Set, 5/16"	l BA	719001	Pfain Washer, 3/8"
		18 N.C. x 5/16" Lg.	BB	720002	Lock Washer, 3/8"
u	157427	Key,	BC	717003	Full Hex. Nut, 3/8"-16 N.C.
V	157683	"V" Belt, P.T.O.	BD	157050	Guard Belt Support, 3/16" x 1 1/4"
W	164241	Idler Lever Ass'y.			x 5 7/16" Lg.
X	164268	Idler Pulley	j BE j	705007	Hex. Cap Screw, 5/16"-18 N.C. × 1"
Y	719002	Plain Washer, 5/16"	8F	720001	Lock Washer, 5/16"
Z	705016	Hex. Cap Screw, 3/8" - 16 N.C. x	BG	717001	Full Hex Nut, 5/16"-18 N.C.
	:::::::::::::::::::::::::::::::::::::	1 - 1/4"	BH	164155	Handle Ass'y,
AA	164244	Spacer	BJ	164047	Spring Tension Rod
A8	157288	Retaining Ring	BK	705017	Hex. Cap Screw, 5/16"-18 N.C. x 3/4"
AC	717510	Full Lock Hex. Not, 3/8" - 16 N.C.	BL	717511	Full Lock Hex. Nut, 5/16"-18 N.C.
AD	157262	Spring, Tension	BM	157273	Stud
AE	157684	Rod Guide Ass'y.	8N	720006	Lock Washer, 7/16"
AF	719002	Plain Washer, 5/16"	BP	717519	Full Lock Hex. Nut, 7/16"-14 N.C.



FRONT COUNTER WEIGHT . . MFR. NO. 223
REAR COUNTER WEIGHT . . MFR. NO. 182
WEIGHT (USE WITH 182) . . . MFR. NO. 045
WHEEL WEIGHT MFR. NO. 536

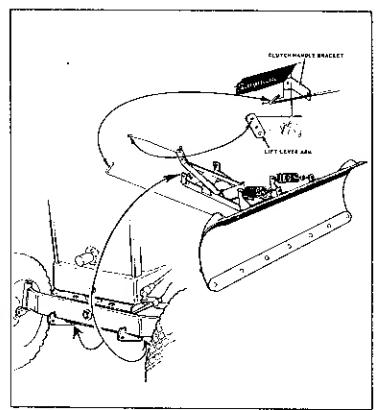




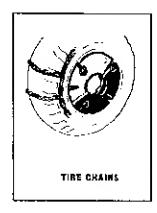


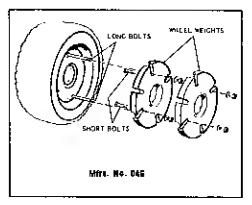
46" DOZER BLADE

Mfrs. No. 356









The 46" Snow plow and Dozer blade can be used with out any weights or chains. HOWEVER, by using these items, plowing and dozing will be done more effectively and efficiently.

Using the rear counter weight (Mfg. # 182 with # 045) will ease lifting of the front mounted attachments. This is mounted on the rear lift assy. Using wheel weights (1 or 2 on either side) will provide more traction. By adding chains with the wheel weights additional traction will be experienced. Loose mounting of the chains will assist in their self cleaning.

OPERATION

There are five operating positions for this blade. The position can be changed by the operator without leaving the seat. Turn the control rod clockwise to unlatch the blade. Push or pull rod to the desired position. For ease of changing positions, raise blade slightly from the ground.

By adjusting the shoe assembly, various blade heights can be achieved. Increased height adjustment can be done by adjusting the stoppin in the lift lever quadrant.

If the blade is used with the Hydralic unit, front or rear float position can be utilized. Using the front float position will provide a downward pressure on the blade. Rear float will give an upward pressure. HOWEVER in either position the blade will follow the ground. The Hydralic Unit can be used for a stationary position also.

The wear plate is reversable. When one side is worn, remove the bolts turn plate around and reinstall bolts.

LUBRICATION

Lubricate all joints where rods enter holes. Also lubricate pivot points. Periodic lubrication will assist in ease of operation.

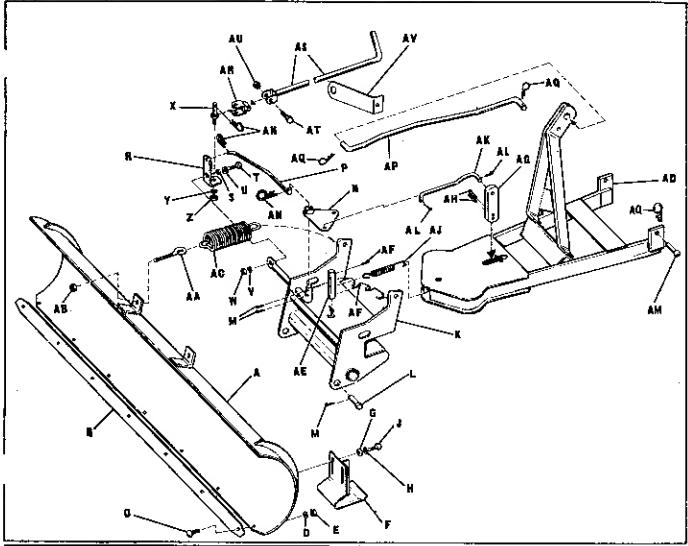
PACKING

The 46" Snow Plow and Dozer Blade comes in one carton with all necessary hardware.

ASSEMBLY

Attach hitch assembly to blade assembly, using the two yoke pins and cotter pins provided. Using the two eye bolts, attach spring from hitch to blade. Allow 1/2" of thread to show thru nuts. Attach to tractor as indicated in Fig. 1 with the two pins and spring clips. Attach blade direction rod bracket to top screw on right hand side of the Fuel Tank & Steering Post Support Assembly. See Fig. 1. (If this bracket has been installed for usage with another implement, it need not be removed) Attach lift rod to tractor lift lever (top Hole) and to plow. Fig. 1. Insert blade direction rod thru bracket and attach to blade. Secure in place with spring clips.

46" DOZER BLADE

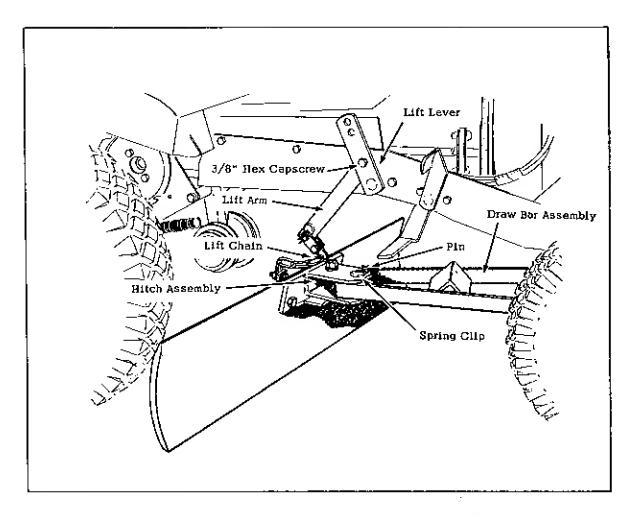


Ref. Let.	Part No.	Description
Α	107096	Blade Ass'y
В	107105	Wear Plate
C -	702002	Carriage Bolt, 3/8"-16 x 1" lg. :
D	720002	Lock Washer 3/8"
Е	717003	Full Hex Nut 3/8"-16 N.C.
F	107106	Shoe Ass'y.
G,	719001	Flat Washer 3/8"
H	720002	Lock Washer 3/8"
J	705004	Hex. Cap Screw 3/8'' - 16 x 3/4'
K	107109	Pivot Frame Ass'y
L	154305	Yoke Pin
M	722006	Cotter Pin 1/8 Dia. x 1"
N	107116	Pivot Plate Ass'y
P	107118	Pivot Rod
Q	106687	Bracket
R	107119	Pivot Arm
\$	156150	Spacer
Т	705007	Hex Cap Screw 5/16"-18 x 1" lg.
U	719002	Plain Washer 5/16"
V	720001	Lock Washer 5/16".
'W	717001	Full Hex. Nut 5/16"-18 N.C.
<u>:</u>	107120	Pivot Stud

Ref. Let.	Part No.	Description
Y	720001	Lock Washer 5/16"
z	717001	Full Hex. Nut 5/16"-18
AΛ	107121	Eyebolt
AB	717001	Full Hex. Nut 5/16"-18
AC	101126	Spring
AD	107122	Push Bar Ass'y
ΑE	107133	Pivot Pin 5/8" Dia. x 3-3/8" lg.
AF	722003	Cotter Pin 3/16 x 1-1/4" lg.
AG	107134	Latch
AH	723002	Roll Pin 7/32" Dia. x 1" lg.
AJ	107135	Latch Spring
AK	107136	Latch Rod
AL	722016	Cotter Pin 3/32" Dia. x 5/8"
AM	118053	(Hitch) Pin
AN	106787	Spring Clip
AP	107143	Front Lift- Rod
JAQ	106788	Spring Clip
AR	106131	Fork Ass'y
AS	107137	Handle Ass'y
AT	705018	Hex. Cap Screw 5/16"-18 x 1-1/2"
ΑU	717511	Full Lock Hex. Nut 5/16''-18

42" GRADER BLADE

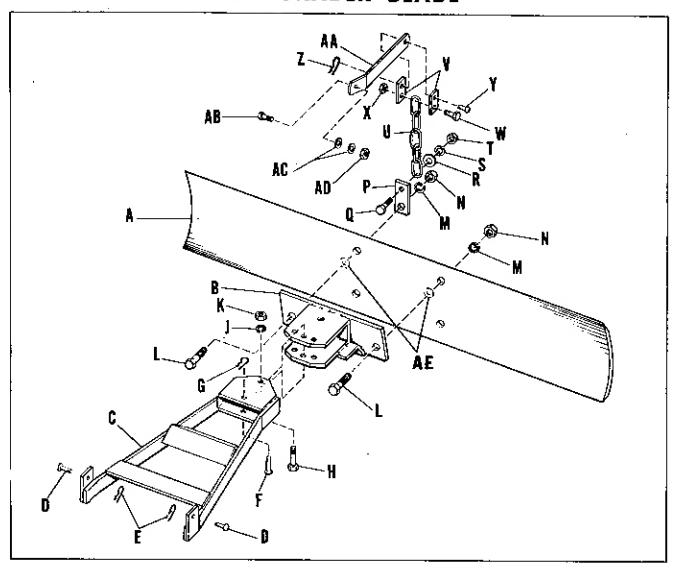
Mfr's. No. 237



The 42° Grader Blade is attached to the tractor as shown in the above illustration by following the sequence of steps as outlined below.

- Position the grader biade under the tractor so that the draw bar assembly may be connected to the front hitch brackets of the tractor. Secure in place with 2 pins and spring clips.
- Attach the lift lever to the lift arm of the tractor as shown, placing 2 plain
 washers between the lift lever and lift arm. Fasten securely with a 3/8*
 hax head capscrew and lock nut.
- Attach the lift chain and links to the lift lever with a pin and spring clip so
 that the blade can be lifted high enough to clear the ground when transporting from one location to another.
- 4. When desired, the blade may be angled to the left or right by removing the pin and spring clip from the center hole in the hitch assembly. Lock the blade in desired position by replacing the pin and spring clip when the alternate holes in the hitch assembly line up with the hole in the draw bar.

42" GRADER BLADE

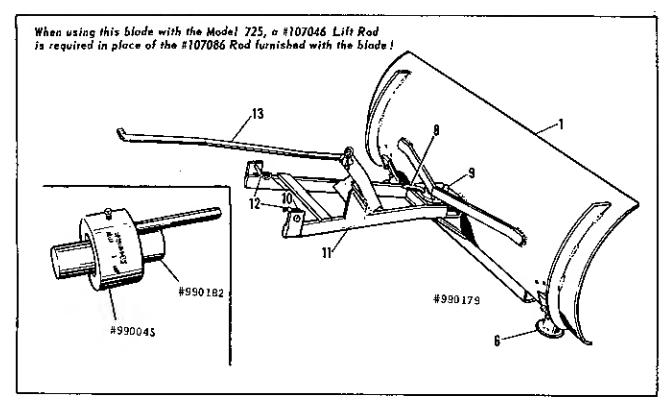


Order by Part Number				
Ref. Letter	Part No.	Description		
A	107056	Blade, Grader, 42"		
₿ .	107058	Hitch Assembly		
C	107052	Draw Bar Assembly		
ן ס	118053	Pin		
E	8161045	Spring Clip		
F	8181008	Pin		
G	8021024	Spring Clip		
H	705056	Capscrew, Hex Head,		
		5/8"-11 NC x 3 " lg.		
J	720005	Lockwasher, 5/8"		
K	717004	Nut, Hex. Full, 5/8"-11 NC		
L	705055	Capscrew, Hex Head,		
		5/8"-11 NC x 2" 1g.		
M	720005	Lockwasher, \$/8"		
N	717004	Nut, Hex, Full, 5/87-11 NC		
] P	107057	Link		
1 Q	705005	Capacrew, Hex Head,		
		3/8"-16 NC × 1/4" lg.		
		<u> </u>		

	Order by Part Number				
Ref. Letter	Part No.	Description			
R	719001	Plain Washer, 3/8"			
S	720002	Lock Washer, 3/8"			
T	717003	Nut, Hex, Full, 3/8"-16 NC			
ប	107031	Chain			
٧	108199	Link			
W	705005	Capscrew, Hex Head, 3/8"-16 NCx 1 1/4" lg.			
Х	717510	Nut, Hex, Full, Lock, 3/8"-16 NC			
Y	153058	Pin			
2	8161045	Spring Clip			
AA	108198	Lever			
AB	705015	Capscrew, Hex Head, 3/8"-16 NC x 1 1/4" lg.			
AC	719001	Plain Washer, 3/8"			
AD	717510	Nut. Hex, Full, Lock, 3/8"-16 NC			
AE	121210	Flat Washer, 1-1/16"			

42" SNOW PLOW & DOZER

MFR'S. NO. 179



PACKING

The 42" snow plow and dozer comes packed complete in one bundle.

ASSEMBLY

Attach push bar (11) to blade (1) using king pin (9) and install a spring clip through the king pin. Attach the front lift rod (13) to the push bar as shown. Drop the pivot pin (8) thru the blade assembly bracket and push bar.

ATTACHMENT

To attach the 42" snow plow and dozer to the LANDLORD Riding Tractor, all that is required is to connect pins (12) to the tractor front hitch and safety clip (10); and to connect the front lift rod (13) to the tractors lift arm.

OPERATION

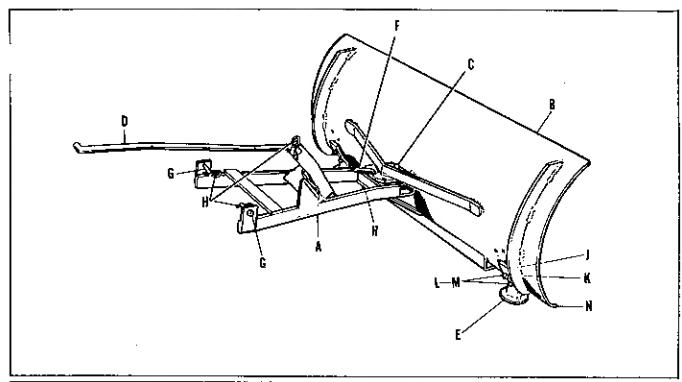
Alternate holes are provided to permit adjustment of the shoe assemblies (6) for raising or lowering the blade when cleaning gravel drives or walks. When cleaning concrete it is desirable to allow the blade to scrape the surface.

The angle of the blade is adjustable to permit plowing to the left or right by moving pivot pin (8) to the desired hole in the blade mounting bracket.

For ease of lifting equipment, it is well to use the counterweight (990182) and additional weight (990045) when using the 42" snowplow and grader on the LANDLORD Riding Tractor. These counterweights are mounted on the rear lift assembly.

When using this equipment it is recommended that chains and wheel weights be installed on the tractor. Loose mounting of the chains will make them self-cleaning.

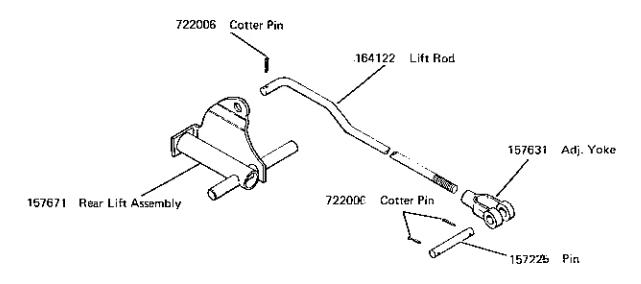
42" SNOW PLOW AND GRADER



Ref. Let.	Part No.	Description
A	107049	Push Bar Assemiby
3	107047	Blade Assembly
C	8181008	Pin, King, 1/2" dia. x 2 1/2"
D	107143	Rod, Front Lift
E	107024	Shoe Assembly
F	8181003	Pín, Pivot
G	118053	Pin

Ref. Let.	Part No.	Description
Y N N H	106788 702002 702003 720002 717003 107045	Clip, Spring Bolt, Carriage, 3/8"-16 × 3/4" Bolt, Carriage, 3/8"-16 × 3/4" Washer, Lock, 3/8" Nut, Hex. Full, 3/8"-16 N.C. Plate, Wear

REAR LIFT KIT Mfrs. No. 622



BATTERY INSTRUCTIONS

With proper care this battery should give the long service life built into it.

A battery which does not function properly is not necessarily worn out or defective. It may only need a good recharge. Therefore, if battery trouble is uspected, a full recharge and test by a competent battery man is recommended.

PUTTING DRY-CHARGED BATTERIES IN SERVICE

Remove wicks or tape covering from vent hole in filler caps. Make sure vent holes are open so battery gases produced when battery is charging can escape. If necessary, run a fine wire in vent hole to be sure it is open and free of all obstructions.

Fill battery with 1.265 specific gravity electrolyte or acid to proper level or 3/16 inch above plates and separators assuming room, battery, and electrolyte temperature is 70° – 100° Fahrenheit.

Allow battery to set for 20 minutes. Battery can then be installed but to obtain best results and maximum capacity, place battery on charge after the 20-minute setting period at 6 amperes until gravity reading is 1.265 - 1.275. If room, battery and electrolyte temperatures are below normal a longer charging period will be mandatory to bring the specific gravity up to 1.265 - 1.275.

WARNING

Under no conditions should battery be filled more than 3/16" over the plates. We cannot be responsible for damages if this warning is not observed.

CARE IN SERVICE

A hydrometer test of the battery solution should be made monthly. If the specific gravity tests 1.225 or less, the battery should be removed and thoroughly recharged. At the same time the solution level should be examined and distilled water added when necessary to retain the level of 3/16" over the plates. When necessary to add distilled water it should always be done just prior to recharging to mix the added water thoroughy into the solution.

When recharging is necessary and user does not have his own charging equipment, he should request service station to slow charge the battery at a rate of 4 to 6 amperes.

Any collection of grease or any other substance should be kept removed from the top of the battery and the top kept dry and clean at all times. The battery should be kept snug in its cradle and not permitted to get loose. If removed for charging, it should be fastened back in snugly enough to prevent any movement when in use. Vent caps should be kept light and the small vent holes in top or side of cap be kept open at all times to permit escapage of gases formed in the battery. Care should be exercises not to overfill the battery at any time and to always retain 3/16" of solution above the plates.

WINTER CARE

If battery will not be used during the winter months it should be removed and stored in a cool, dry place. Any collection of grease or other substance should be removed from the top of the battery.

The battery must be recharged monthly or whenever the hydrometer reads less than 1.225. Before reinstalling the battery in the spring, it should always be given a thorough recharge.